

## Polykemi AB POLYelast TPE R44 TV10 Thermoplastic Elastomer, Mineral Reinforced

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYelast-TPE-R44-TV10-Thermoplastic-Elastomer-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYelast-TPE-R44-TV10-Thermoplastic-Elastomer-Mineral-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in <sup>3</sup>	ISO 1183
Filler Content	10 %	10 %	±2%; Polykemi
Melt Index of Compound	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54 @Time 15.0 sec	54 @Time 0.00417 hour	Polykemi
Tensile Strength at Break	<= 19.0 MPa	<= 2760 psi	ISO/R527
Elongation at Yield	8.0 %	8.0 %	ISO/R527
Flexural Strength	<= 25.0 MPa	<= 3630 psi	ISO 178
Flexural Modulus	1.30 GPa @Temperature 23.0 °C	189 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	1.50 J/cm <sup>2</sup> @Temperature -20.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179
	2.80 J/cm <sup>2</sup> @Temperature 23.0 °C	13.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	132 °C @Load 1.00 kg	270 °F @Load 2.21 lb	132°C/1 - ISO 75/1

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	
Mold Temperature	20.0 - 60.0 °C	68.0 - 140 °F	
Injection Pressure	90.0 - 110 MPa	13100 - 16000 psi	
Back Pressure	0.200 - 0.500 MPa	29.0 - 72.5 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	High	

## Contact Songhan Plastic Technology Co.,Ltd.

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